Chapter 13

M-Graphics ActiveX Control

Introduction

This chapter describes how to:

- insert M-Graphics ActiveX control
- configure M-Graphics ActiveX control

Key Concepts

M-Graphics ActiveX Control

M-Graphics ActiveX control (GWXview32.OCX) is capable of running M-Graphics displays. The advantage of ActiveX controls, like M-Graphics, is that they can be embedded into any control container (i.e., Visual Basic forms, Internet Explorer HyperText Markup Language (HTML) pages, M-Graphics displays).

M-Graphics ActiveX control is essentially a Runtime-only component (with some minimal configuration capability); the Runtime-only design allows the ActiveX to conserve memory. An M-Graphics ActiveX control executes displays created by gwx32.exe (M-Graphics).

Runtime Window Properties Mode

This feature of M-Graphics makes it possible to see what a display looks like in Runtime mode without actually entering Runtime. Pressing Ctrl + R toggles the display window between Configure and Runtime modes. When the action toolbars are hidden, the configuration functions can be found in the main menu or in the right-click pop-up menu.

Note: Pressing Ctrl + M toggles between Configuration and Runtime modes.

Procedure Overview

Table 13-1: M-Graphics ActiveX Control

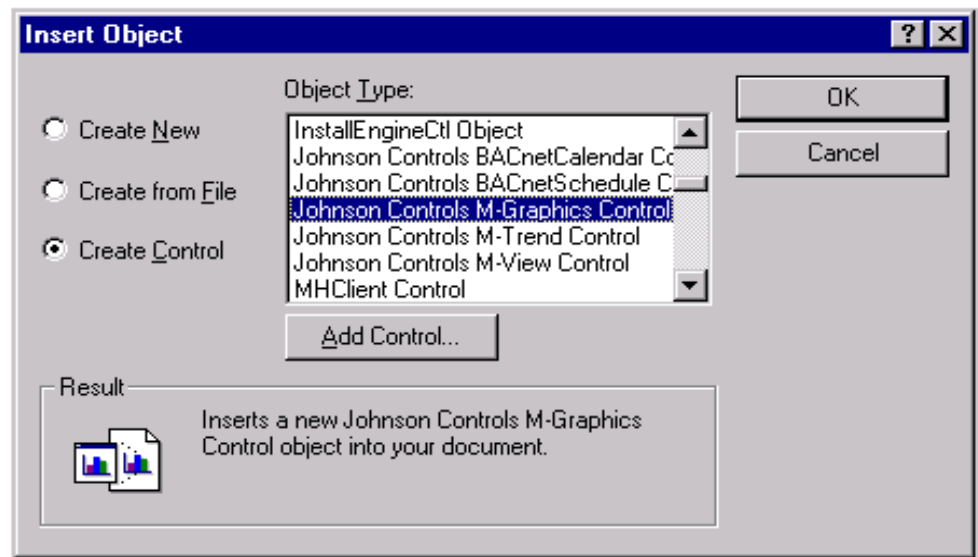| To Do This	Follow These Steps:
Insert M-Graphics ActiveX Control	From the Edit menu, select Insert New Object. Select the item Johnson Controls M-Graphics Control. Click OK.
Configure M-Graphics ActiveX Control	Double-click the M-Graphics ActiveX control to display the control's Property page. Fill in the parameters. Click OK.

Detailed Procedures

Inserting M-Graphics ActiveX Control

Techniques for inserting an ActiveX control may vary slightly among different control containers; however, the basics are the same.

Note: If you are using the M-Graphics numeric keypad function to work with an M-Graphics ActiveX control, you must run the M-Graphics (gwx32.exe) as a standalone application on the M-Series Workstation. The numeric keypad function may not work within M-Graphics ActiveX controls.

To insert M-Graphics ActiveX control:

1. From the Edit menu, select Insert New Object. The Insert Object dialog box appears (Figure 13-1).

Figure 13-1: Insert Object Dialog Box

2. Select the item Johnson Controls M-Graphics Control.

3. Click OK. The M-Graphics ActiveX control appears in the center of the display.

Note: An M-Graphics ActiveX control may also be inserted by clicking on the icon in the ActiveX toolbar (Figure 13-2).
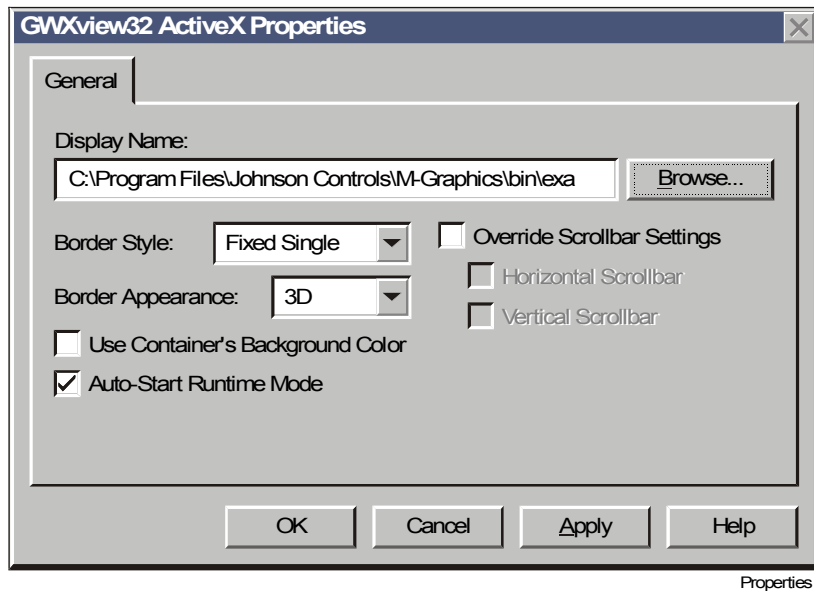

Figure 13-2: ActiveX Toolbar

Configuring M-Graphics ActiveX Control

To configure M-Graphics ActiveX control:

1. Double-click the M-Graphics ActiveX to display the Property page shown in Figure 13-3.

2. Fill in the parameters described in Table 13-2.

3. Click OK.

Figure 13-3: M-Graphics Property Page

Table 13-2: M-Graphics ActiveX Property Page

Parameter	Description
Display Name	Specifies the file name of the M-Graphics display to be loaded in this control. Use the Browse button to browse for display files.
Border Style	Specifies appearance of the window border: No Border or Fixed Single.
Border Appearance	Specifies appearance of border: Flat or 3-D.
Use Container's Background Color	Automatically sets the background color of the control to match the background color of the container in which this control is embedded. This property only works if the container supports the AmbientBackColor property. M-Graphics and Visual Basic forms both support this property.
Auto-Start Runtime Mode	Automatically enters Runtime mode when the control's container enters Runtime mode. This property only works if the container supports the AmbientUserMode property. M-Graphics and Visual Basic forms both support this property.
Override Scrollbar Settings	Indicates the control will override the scroll bar visibility settings of the display currently loaded in the control. When not checked, the control will use the scroll bar settings defined in the currently loaded display.
Horizontal Scrollbar	Determines if the horizontal scroll bar is visible. This property is ignored if Override Scrollbar Settings is not checked.
Vertical Scrollbar	Determines if the vertical scroll bar is visible. This property is ignored if Override Scrollbar Settings is not checked.

For more information about the properties of the M-Graphics ActiveX, see the *OLE Automation Reference* chapter in this manual specifically the section describing the GWXview32 object type.

Note: Convert is a standard function of ActiveX objects that allows the conversion of ActiveX objects to metafiles, bitmaps, icons, etc. However, this function has no purpose in M-Graphics ActiveX objects.